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(54) **Polyphenylene sulfide resin compositions and process for preparation of same**

(57) The present invention relates to a PPS resin composition comprising a matrix of the PPS which is filled with PTFE fine particles having an average particle size of 0.05 to 1 μm and comprising a fibrillating core portion of a high molecular weight PTFE with a number-average molecular weight of not less than 1.5 million and a non-fibrillating shell portion of a low molecular weight PTFE so that a content thereof is 40 to 80 % by weight in the composition, and also relates to a process for preparing said PPS resin composition, which is characterized in that melting and kneading are carried out at a temperature from a temperature of not less than a melting point of PPS to a temperature of not more than a melting point of a high molecular weight PTFE. The polyphenylene sulfide resin composition of the present invention presents sliding properties such as excellent friction and wear resistance which sliding materials mainly containing usual polytetrafluoroethylene have as well as properties of polyphenylene sulfide such as injection moldability and high mechanical properties.

EP 0 892 017 A3



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EUROPEAN SEARCH REPORT

Application Number

EP 98 11 9771

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
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A	US 3 487 454 A (OATES ALEX N ET AL) 30 December 1969		
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 31 March 1999	Examiner Stienon, P
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 98 11 9771

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